

English translation of the amended sheets of International Preliminary Examination Report 15 Res'd PCT/PTO 0.5 JAN 2005

CLAIMS

- 1. Use of a foam prepared with an aqueous solution which comprises, per litre of solution:
- 5 0.2 to 2% by weight of a foaming organic surface-active agent or of a mixture of foaming surface-active agents,
 - from 0.1 to 1.5% by weight of gelling agent and, optionally,
 - 0.2 to 7 mol of an inorganic acid or base for radioactive decontamination or of a mixture of inorganic acids or bases for radioactive decontamination,
- in a process for the radioactive decontamination of a surface.
 - 2. Use according to Claim 1, in which the surface-active agent is a foaming nonionic surfactant.
- 15 3. Use according to Claim 1, in which the surface-active agent is a foaming nonionic surfactant chosen from the family of the alkylpolyglucosides or alkylpolyetherglucosides.
- 4. Use according to Claim 1, in which the surface-active agent is an amphoteric surfactant.
 - 5. Use according to Claim 1, in which the surface-active agent is an amphoteric surfactant chosen from the family of the sulphobetaines, from the family of the alkyl amidopropyl hydroxysulphobetaines or from the family of the amine oxides.
 - 6. Use according to Claim 1, in which the acid is chosen from the group consisting of hydrochloric acid, nitric acid, sulphuric acid, phosphoric acid and oxalic acid or is a mixture of acids from this group.
 - 7. Use according to Claim 1, in which the acid is in an amount of 0.3 to 7 mol.
 - 8. Use according to Claim 1, in which the acid is in an amount of 1 to 4 mol.

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- 9. Use according to Claim 1, in which the base is chosen from the group consisting of sodium hydroxide, potassium hydroxide and sodium carbonate or is a mixture of bases from this group.
- 5 10. Use according to Claim 1, in which the base is in an amount of less than 2 mol.
 - 11. Use according to Claim 1, in which the base is in an amount of 0.5 to 1.5 mol.
 - 12. Use according to Claim 1, in which the gelling agent is an organic thickening agent exhibiting a rheological behaviour of pseudoplastic type.
- 13. Use according to Claim 1, in which the gelling agent is chosen from the group consisting of a water-soluble polymer, a hydrocolloid and a heteropoly-saccharide or from the group consisting of cellulose derivatives.
 - 14. Use according to Claim 1, in which the gelling agent is chosen from the group consisting of heteropolysaccharides chosen from the family of the polyglucoside polymers comprising trisaccharide branched chains; and cellulose derivatives, such as carboxymethylcellulose or a polysaccharide comprising glucose as sole monomer.
 - 15. Use according to Claim 1, in which the gelling agent is xanthan gum.
 - 16. Use according to Claim 1, in which the surface to be decontaminated is brought into contact with the foam for 1 to 10 hours.
- 17. Use according to Claim 16, additionally comprising, after the operation of bringing the surface to be decontaminated into contact with the foam, rinsing the said surface using a rinsing solution.